2. Which of the following is the most common pathogen in acute otitis media?

- A. **Viruses**
- B. **S. pneumoniae**
- C. **H. influenza**
- D. **Moraxella catarrhalis**

3. A 16-day-old full-term neonate presents to the emergency department with seizures. Sepsis and meningitis are suspected, and cultures are obtained. Which antibiotic regimen is most appropriate for this neonate?

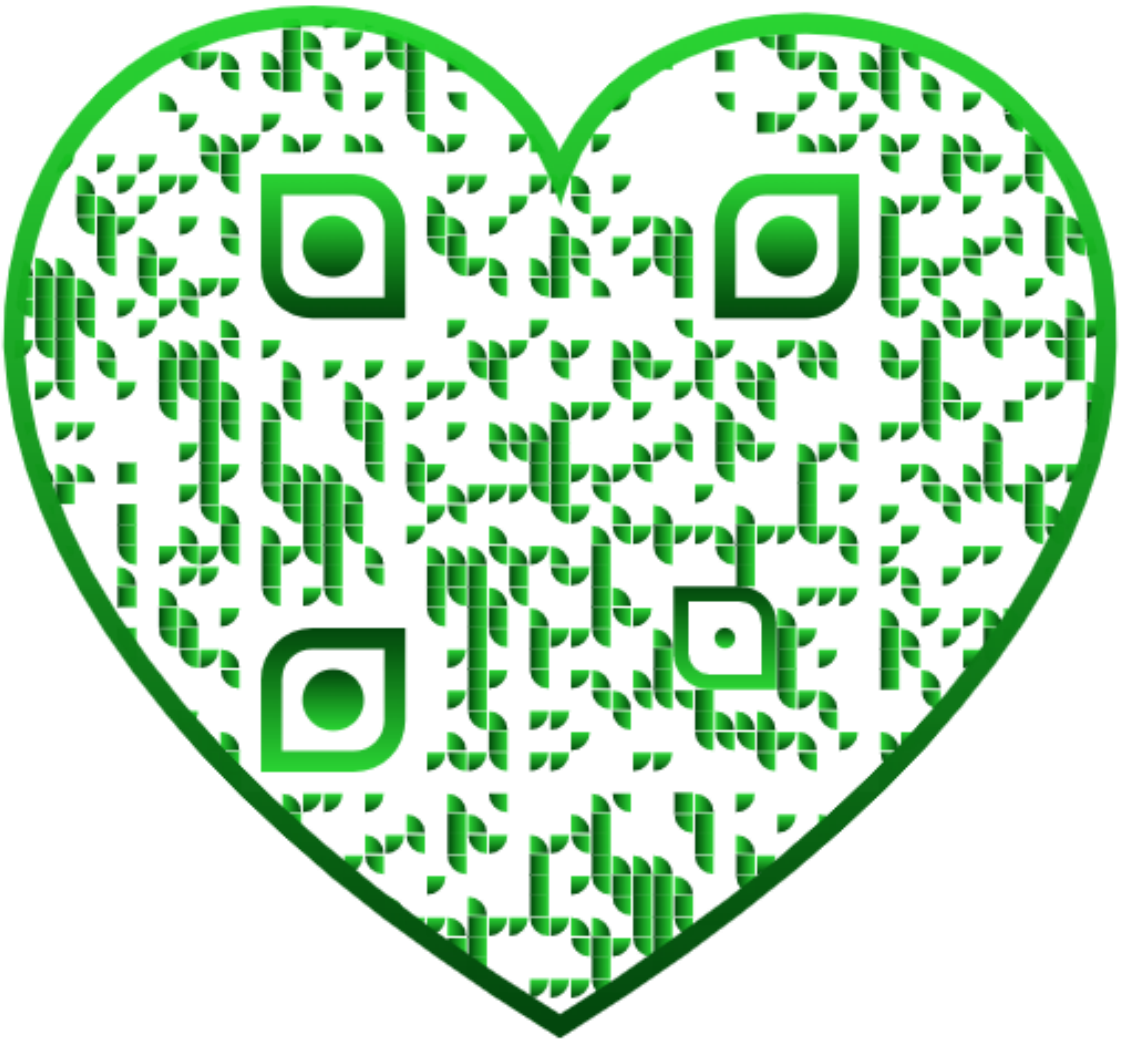
- A. **Ceftriaxone and ampicillin**
- B. **Cefotaxime and ampicillin**
- C. **Clindamycin and gentamycin**
- D. **Ceftriaxone and gentamycin**

4. Which of the following is not a risk factor of stroke?

- A. **Hypertension**
- B. **Low birth weight**
- C. **Diabetes Mellitus**
- D. **Optimize head of bed**

5. All of the following can be the outcome of drug metabolism except

- A. **Conversion of inactive drug into active metabolite**
- B. **Conversion of the active drug into the active metabolite**
- C. **Conversion of active drug to toxic metaboliteEstrogen**
- D. **Conversion of polar drug to non-polar metabolite**



6. Except for one, all of the following techniques can improve medicine accessibility by lowering costs.

- A. **Reduction of drug taxes and distribution margins**
- B. **Promotion of competition**
- C. **Generic substitution**
- D. **None of the above**

7. Which ointment base is suitable to formulate drug which is liable to hydrolysis?

- A. **Water-soluble bases**
- B. **Hydrocarbon bases**
- C. **Absorption base**
- D. **Water-Removable Bases**

8. A 45 years old male develops severe thrombocytopenia in response to treatment with an anticoagulant. Which of the following drugs is most likely responsible for this patient's thrombocytopenia?

- A. **Dabigatran**
- B. **Warfarin**
- C. **prasugrel**
- D. **Unfractionated Heparin**

9. Assume a formulation scientist is considering manufacturing oral suspensions and decided to use surfactants with HLB between 7 & 9. The active pharmaceutical ingredient is most likely

- A. **Non-diffusible type**
- B. **Poorly wettable type**
- C. **Diffusible type**
- D. **Polymorphic type**

10. Which of the following traditional medicine systems follows the principle 'like cures like':

- A. **Aromatherapy**
- B. **Ayurveda**
- C. **Naturopathy**
- D. **Homeopathy**

12. When was DACA re-structured as Food, Medicine and Health Care Administration and Control Authority (EFMHACA) of Ethiopia?

- A. 1964
- B. 1999
- C. 1995
- D. 2010

13. In the preparation of pharmaceutical capsule shell, which excipients are contributed for the flexibility of the shell?

- A. Glidant and Lubricant
- B. binder and filler
- C. plasticizer and water
- D. Disintegrant and antiadherent

15. Which of the following techniques would be most useful to identify and quantify the presence of a known impurity in a drug substance?

- A. NMR
- B. MS
- C. HPLC
- D. IR

16. What is the purpose of a medication reconciliation process in a dispensary?

- A. To ensure patients receive the correct medication and dosage
- B. To manage inventory levels
- C. To provide pharmaceutical advice to patients
- D. To provide medical advice to patients

17. What is the advantage of combining beta blockers with long-acting nitrates?

- A. **Bradycardia due to nitrate is blocked by beta blocker**
- B. **Tachycardia due to nitrates is blocked by beta blockers**
- C. **Nitrates decreases only after load while beta blockers decrease preload**
- D. **Beta-blockers**

18. Herbal remedies are available in all of the following forms EXCEPT

- A. **Tinctures and teas**
- B. **Standardized estracts**
- C. **Freeze-dried extracts**
- D. **Injectable solutions**

19. Which of the following shift led to the decreased intensity of absorption?

- A. **Bathochromic**
- B. **Hyperchromic**
- C. **Hypsochromic**
- D. **Hypochromic**

20. Which antiretroviral drug should be used in HIV patients co-infected with hepatitis B virus?

- A. **Zidovudine**
- B. **Abacavir**
- C. **Tenofovir**
- D. **Nevirapine**

21. Why do the more specific objectives of medicine policy differ by country?

- A. **The structure of the health care system differ by country**
- B. **The number of trained pharmacists and physicians vary from country to country**
- C. **The capacity of the drug regulatory authority differs from country to country**
- D. **All of the above**

23. Which one of the following is not recommended in the workup of patients with suspected meningitis?

- A. **Performance of lumbar puncture**
- B. **Delay of anti-biotics until CT scan results arrive**
- C. **Conducting a CBC tests**
- D. **Administration of steroid as soon as possible**

24. Which of the following is not true about community acquired pneumonia in patients with no hospitalization history and comorbidty?

- A. **It is predominantly caused by Streptococcus pneumoniae**
- B. **Macrolides may be considered to cover atypical organisms**
- C. **Ceftazidime is initially considered to cover Pseudomonas aeruginosa**
- D. **Changing antibiotics is recommended after 72 hour, if the patient remain febrile**

25. For TIME-dependent antibiotics, bacterial eradication is a function of:

- A. **slow rate of bactericidal action**
- B. **frequent drug administration**
- C. **Post antibiotic effect**
- D. **Administering large dose once**

26. Which one of the following is false about determine the ultimate question in systematic approach to receiving and answering questions on drugs?

- A. It is the actual question for which you are seeking an answer
- B. It is optional because most of the ultimate question are similar to the original question
- C. It is helpful to categorize questions for effective search
- D. It is decided on common agreement with the requester

27. Which one of the following is false about acute coronary syndrome?

- A. **Angina pain during exertion is the whole mark of patients with acute coronary syndrome**
- B. **Atherosclerosis is the major cause of acute coronary syndrome**
- C. **ST-segment elevated myocardial infaction is more severe that Non-ST-segment elevated acute coronary syndrome**
- D. **Combination of Aspirin 81mg po daily and Clopidogrel 75mg po daily prevent recurrent cardiovascular event**

28. which one of the following is specific to neonatal meningitis?

- A. **S. pneumoniae**
- B. **H. influenza**
- C. **Group B streptococci**
- D. **E.coli**

29. Concomitant administration of phenobarbital with warfarin may result in

- A. **Decrease warfarin activity**
- B. **Increase risk of bleeding from warfarin**
- C. **Decrease phenobarbital activity**
- D. **Increase phenobarbital activity**

30. Which of the following regimens would be the best option for a 32-years-old pregnant female recently diagnosed with active TB?

- A. **Isoniazid, rifampin, and pyrazinamide**
- B. **Isoniazid, rifampin, and ethambutol**
- C. **Isoniazid, streptomycin, and pyrazinamide**
- D. **Isoniazid, streptomycin, and pyrazinamide**

32. A 48-year-old woman was hospitalized in JMC for complicated community-acquired pneumonia and treated with ceftriaxone 1gm Iv BID. On day 4, she develops severe diarrhea. stool is positive for Clostridium difficile toxin. What is the best treatment?

- A. **Metronidazole 500mg tid 10 days**
- B. **Ceftriaxone 1g daily for 7 days**
- C. **Doxycycline 100mg daily 10 days**
- D. **vancomycin 1gm Tid for 10 days**

33. TD is a 45-year-old patient severely immunocompromised with human immunodeficiency virus (HIV) and TB coinfection. Which of the following is the most appropriate treatment approach in this patient?

- A. **Immunologic failure**
- B. **Clinical failure**
- C. **Virologic failure**
- D. **Nonadherence to medication**

34. Which one of the following is the primary role of alkaloids and glycosides?

- A. **reproduction**
- B. **Protection**
- C. **Survival**
- D. **Growth**

35. Which of the following is not a common function of a dispensary?

- A. **Dispensing medication**
- B. **providing pharmaceutical care**
- C. **Conducting medical examinations**
- D. **Managing inventory**

36. Which of the following activities could improve the stability of suspension?

- A. **Decreasing the particle size of dispersed phase.be used as vehicle for elixirs and linctuses**
- B. **Increasing the interfacial tension**
- C. **Decreasing the surface area**
- D. **Flocculation**

37. A drug that increases insulin secretion by blocking ATP-sensitive potassium channels on p...creatic β cells is

- A. **Sitagliptin**
- B. **Metformin**
- C. **Repaglinide**
- D. **Acarbose**

38. Which of the following is an advantage of using a diode array detector in UV-Visible spectrophotometry?

- A. **High sensitivity**
- B. **wide dynamic range**
- C. **Ability to scan over a range of wavelengths simultaneously**
- D. **High resolution**

39. A 50 year old female hypertensive patient has been placed on a diuretic to control his high blood pressure.However, after a few weeks, he develops an acute gouty attack. If the gouty attack is precipitated by the diuretic therapy, which of the following drugs has he most likely been taking?

- A. **Acetazolamide**
- B. **Eplerenone**
- C. **furosemide**
- D. **Hydrocholothiazide**

40. In which of the following applications is HPLC commonly used?

- A. **Separation of proteins and other large biomolecules**
- B. **Analysis of elemental composition of samples**
- C. **Analysis of volatile compounds in environmental samples**
- D. **Quantification of drug substances and drug products**

41. Pharmacists who are motivated more toward the ethical virtue of nonmaleficence rather than beneficence will be more likely to:

- A. **Encourage patients to obtain prescriptions for any legitimate indication they might have**
- B. **Discourage patients from getting the annual vaccines**
- C. **Take extra time during counselling sessions to emphasize all possible side effects**
- D. **Recommend specific drug stores from which patients can get quality medicines**

42. A 56-year-old woman with a long history of untreated hypertension is admitted to internal medicine ward because of severe headache and confusion. The patient is oriented to person, but not to time or place. Her blood pressure is 230/140 mm Hg, pulse is 86/min, and RR is 1 8/min. Funduscopic examination reveals optic disk edema, and a dipstick test shows protein in the urine. Which of the following is the most appr... pharmacotherapy?

- A. **Clonidine**
- B. **Hydralazines**
- C. **furosemide**
- D. **Sodium Nitroprusside**

43. A suspension preparation is manufactured from poorly water soluble drug. From the bulk of the preparation, samples were taken and analyzed for drug content. The results comply with content specification indicated in the pharmacopoeia. Then, the bulk was tilled into 120 ml bottles. Later on representative samples were taken from filled bottles, analyzed and assay result showed that drug content of each samples were below pharmacopeiallimit. Assume that the analytical instrument is operating properly. What can be a reason for the drug content to be below pharmacopeial limit?

- A. **Small sample sizes may be subjected to analysis**
- B. **Failure to shake the bottles prior to sampling**
- C. **Filling each bottle with continuous mixing**
- D. **Filling each bottle without continuous mixing**

44. What is the role of a pharmacist in medication management?

- A. **Ensuring patients receive the correct medication and dosage**
- B. **Conducting medical examinations**
- C. **Performing ECG investigation**
- D. **Diagnosing medical conditions**

45. A 67-year-old man who had been a known COPD patient for the previous two months was brought in for a prescription refill at the follow-up clinic. He smoked for the past ten years, but he has no prior history of other chronic illnesses. His current medications was; SABA prn, prednisolone 30 mg/day, fluticasone 160 mcg BID. He currently smoke one piece of cigarette in a week. Which of the following recommendati... has effect on improving lung functions of the patient?

- A. **Inhaled SABA**
- B. **Inhaled Corticosteroid**
- C. **Systemic corticosteroid**
- D. **optimize head of the bed**

46. What is the major concern with a 72-year-old woman using prednisone for knee problems for a prolonged period of time?

- A. **Hypertension.**
- B. **Precipitation of a stroke**
- C. **Renal insufficiency**
- D. **Osteoporosis**

47. One of the following statement is not true about Ergot alkaloid ergotamine

- A. **Ergotamine is used to treat severe throbbing headaches such as migraine and cluster headaches**
- B. **Ergotamine is not a pain reliever.**
- C. **Ergotamine is highly toxic and can result in nausea and vomiting**
- D. **The bioavailability of ergotamine by oral route of administration is better than intramuscular or intravenous administration**

48. LT was admitted to medical ward of JMC before a week with a diagnosis of cirrhosis. Associated with this he developed ascites. Which of the following diuretic regimen is recommended for the management of ascites in LT?

- A. **Furosemide 40mg daily**
- B. **Furosemide 100mg daily + Spironalctone 4mg daily**
- C. **Spironalctone 100mg daily + Furosemide 40mg daily**
- D. **Hydrochlorothiazide 25mg po daily + sprinolactone 100mg po daily**

49. A 20-year-old female asthmatic patient who visited the follow-up clinic complained of daily shortness of breath and more than once a week of night awakening cough. She had previously been taking SABA on her own. Based on the present symptoms, which of the following is appropriate recommendation therapy?

- A. **Continue SABA prn alone**
- B. **Add Low dose of ICS**
- C. **Add Low dose of ICS plus LABA**
- D. **Add Medium dose of ICS plus LABA**

50. Karl Fischer method is used in the determination of

- A. **Ash content**
- B. **Bitterness content**
- C. **Moisture content**
- D. **Chemical content**

51. Which ointment base has excellent skin hydration properties and promotes percutaneous absorption of drug?

- A. **Water-soluble bases**
- B. **Hydrocarbon bases**
- C. **Water-Removable Bases**
- D. **Absorption bases**

52. Which of the following is not a key component of effective communication skills for pharmacists?

- A. **Active Listening**
- B. **Empathy**
- C. **Clear and concise language**
- D. **Interrupting the patient to save time**

53. An instrument used to measure the absorbance of a sample at any wavelength

- A. **Sphygmomanometer**
- B. **Spectrophotometer**
- C. **Slit lamp**
- D. **Centrifuge**

54. The corticosteroid with high antiinflammatory activity and minimal effects on blood pressure after acute administration is:

- A. **Cortisone**
- B. **Hydrocortisone**
- C. **Dexamothasone**
- D. **Predinsone**

55. From the following statements, which one is the reason behind the birth of essential medicine concept?

- A. **Uneven distribution of medicine between developed and undeveloped nations**
- B. **The high prices of available medicines**
- C. **Safety concerns with some medicines**
- D. **All of the above**

56. Which of the following is appropriate statement about Bronchiectasis?

- A. **It causes airway tube widening**
- B. **It clinically manifest as cough with lots of mucus and pus**
- C. **It is the same with Bronchitis**
- D. **Azithromycin is indicated**

57. What is the purpose of using open-ended questions in communication with patients?

- A. **To encourage the patient to share more information**
- B. **To quickly gather necessary information and move on**
- C. **To avoid any potential misunderstandings**
- D. **To assert authority as a healthcare professional**

58. A manufacturing company was manufacturing tablets containing metronidazole as an active ingredient. While the manufacturing process was going on a sample of the tablet was taken by an analyst for in process quality control test. During this test, pinking and st[illegible]ng problems were observed from the manufacturing batch.

- A. **Selecting enclosed letters and designed them as small as possible on punch faces**
- B. **Use of low melting excipients in the formulation**
- C. **Reduce the amount of binders or adhesives used in the formulation**
- D. **Decrease the amount of lubrication used in the formulation**

59. A 47 year old man has primary hypertension with an average BP of 152/88 mm Hg and heart rate of 70 beats/min. Further lab finding shows serum potassium is 4.5 mEq/L (4.5 mmol/L), serum creatinine is 0.9 mg/dL and urine protein is 2+ (100-300mg/dL). Which of the following therapy would be most appropriate at this time?

- A. **Hydrochlorthiazide**
- B. **Sprinolactone**
- C. **Atenolol**
- D. **Lisinopril**

Thank you for sharing. Here are the answers🙌🙌🙌

ANSWERS

2= B

3= B

4,5,6= D

7= B

8= D

9= B

10=D

12= D

13=C

15=C

16=A

17=B

18=C

19=C

20=C

21=D

23=B

24=C

25=B

26=B

27=A

28=C

29=A

30=B

32=D

33. . .

34=B

35=C

36=A

37=SULFONYL UREA GROUP

38=A

39=D

40=D

41=C

42=B

43=B

44=A

45=B

46=D

47=D

48=C

49=B

50=C

51=C

52=D

53=B

54=C

55=D

56,57,58=A

59=D